

C.6

MEMO TO: City Council

FROM: Rosemarie Ives, Mayor

DATE: March 1, 2005

SUBJECT: **APPROVAL OF AWARD OF BID FOR WELL NO. 4 SAND SEPARATOR
AND SUPPLEMENTAL AGREEMENT NO. 6 FOR ENGINEERING
SERVICES, PROJECT NO. 93-OW-18**

I. **RECOMMENDED ACTION**

- A. Approve the award of bid for the Well No. 4 Sand Separator, Project 93-OW-18, to Gary Harper Construction, Inc. of Redmond, Washington, for the amount bid of \$46,566.40 including applicable Washington State sales tax, and authorize the Mayor to sign the contract.
- B. Approve Supplemental Agreement No. 6 with CH2M Hill, Inc. for design and construction engineering services in an amount not to exceed \$61,000, and authorize the Mayor to sign the agreement.

II. **DEPARTMENT CONTACT PERSONS**

Dave Rhodes, Director of Public Works	556-2705
Bill Campbell, City Engineer/Assistant Director of Public Works	556-2733
Ron Grant, Construction Division Manager	556-2742
Lisa Singer, Project Manager	556-2726

III. **DESCRIPTION**

Background

Well No. 4 was originally constructed in 1972, at the present location of the Redmond Public Safety Building on the City Campus. In 1988, Well No. 4 facilities were demolished and the well was abandoned to accommodate construction of the Public Safety Building. In 2002, the Well No. 4 Redevelopment project, which reconstructed the well facility in its current location, was completed. In 2003, the

well was redeveloped in an attempt to reduce the air and sand being pumped. Since that time, sand has continued to be problematic and cause wear on the equipment in the facility.

Summary

The contractor will install a sand separator system in the Well No. 4 facility. The sand separator will be located immediately after the well pump to remove sand that is currently being carried from the well through the facility and into the water system. The sand has caused increased wear on various systems in the well facility. The sand separator will filter out and remove most of the sand, thus protecting the equipment in the well. In order to accommodate the sand separator, piping and other systems will be relocated and the electrical system will be updated.

Bid Results

The project was advertised in the Seattle Daily Journal of Commerce on February 2 and 9, 2005. The City Clerk received bids until 2:00 p.m. on February 17, 2005. Four bids were received as shown:

Gary Harper Construction, Inc.	Redmond, WA	\$46,566.40
Stouder General Construction LLC	Ferndale, WA	\$56,576.00
Grecor Construction	Olympia, WA	\$58,425.60
Arcadia Drilling, Inc.	Shelton, WA	\$62,668.80
<i>Engineer's Estimate</i>		<i>\$69,632.00</i>

Amounts shown include applicable sales tax. All bidders' unit prices, extensions, and additions have been checked for accuracy and for unbalanced bid items. Minor mathematical errors were found in the bid of the third place bidder, but correction of the error did not affect the relative standing of the bids.

Staff recommends award to Gary Harper Construction, Inc., the actual low and responsible bidder. The contractor's references were checked and found to be acceptable. They have performed satisfactory work for the City of Tukwila, City of Everett, King County, and Lakehaven Utility District in Federal Way during the past several years.

Design

This Supplemental Agreement No. 6 provides for engineering and construction support services for the sand separator and miscellaneous work related to Well 4. Since the well facility went on-line in 2002, the consultant was involved in evaluating the effects of the sand in the pumped water on the systems in the well facility. They recommended updates to the equipment and designed the sand

separator system. They will provide construction support during the installation of the sand separator and other work in the well facility.

This Supplemental Agreement (Attachment B) is the City's standard agreement and the scope of work describes the tasks necessary to provide the above-mentioned services. The City Attorney and Risk Manager will review and approve the supplemental agreement prior to signature by the Mayor.

IV. **IMPACT**

A. Service/Delivery:

This work will provide operational improvements for Well No. 4.

B. Fiscal:

1. Estimated Project Cost:

Sand Separator Construction (Gary Harper Construction, Inc.)	\$46,566
Design & Construction Services (CH2M Hill) - Supplemental Agreement #6	61,000
City Administration and Inspection	15,000
Contingency	25,000
Total	\$147,566

2. Funding:

Water/Wastewater CIP	\$147,566
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V. **ALTERNATIVES**

Council could choose not to award the bid and direct staff to rebid or cancel the project. Failure to award the bid would delay the construction of the improvements, and possibly increase the cost of the construction caused by bidding at a later time.

VI. TIME CONSTRAINTS

Award must be within 45 days of the bid opening or the contractors may withdraw their bids. Action is needed in order to start construction this spring to expedite getting the well facility back in operation prior to the start of the other well renovations.

The following schedule is proposed:

Award Bid	March 2005
Notice to Proceed	April 2005
Construction Period	April – June 2005

VII. LIST OF ATTACHMENTS

- A. Vicinity Map
- B. Proposed Supplemental Agreement

William J. Campbell for

David Rhodes, Director of Public Works

2/18/05

Date

Approved for Council Agenda

s/s

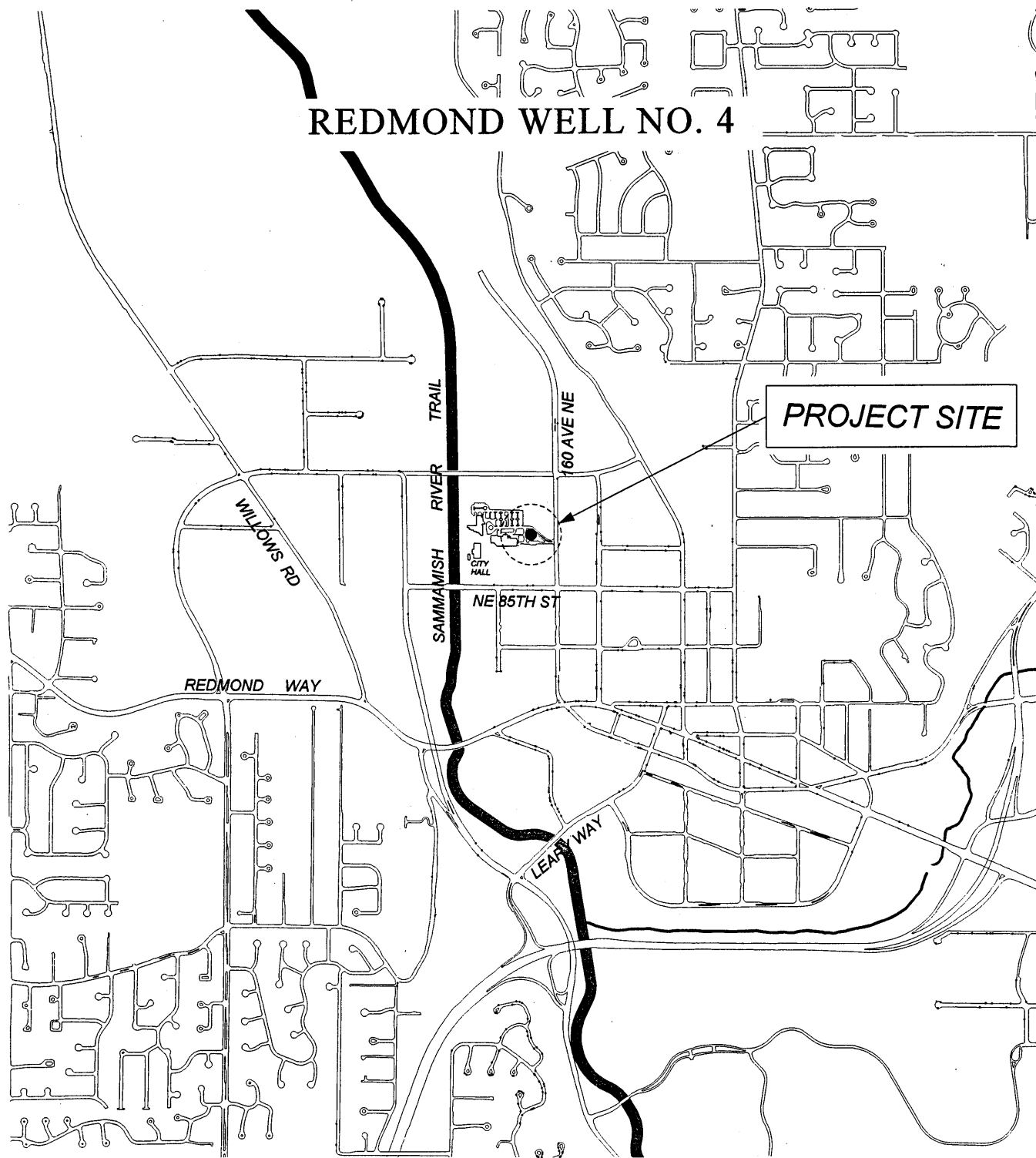
Rosemarie Ives, Mayor

2/18/05

Date

REDMOND WELL NO. 4

PROJECT SITE



VICINITY MAP

**Well No. 4 Redevelopment
Project No. 93-OW-18**

SUPPLEMENTAL AGREEMENT NO. 6

This SUPPLEMENTAL AGREEMENT, made and entered into this ____ day of _____, 2005 between the City of Redmond, Washington, hereinafter called the CITY, and CH2M Hill, hereinafter called the CONSULTANT, amends an earlier Agreement (AGREEMENT) dated April 12, 1994.

WHEREAS the CITY requires additional engineering services related to the above-mentioned project, and pursuant to Section XIV (Extra Work) of the AGREEMENT;

NOW THEREFORE, it is mutually agreed that the terms, stipulations, and conditions of the original AGREEMENT and previous SUPPLEMENTAL AGREEMENTS shall be binding upon the parties hereto except insofar as amended by this SUPPLEMENTAL AGREEMENT as follows:

ITEM NO. 1: SCOPE OF WORK

Section II, SCOPE OF WORK of the AGREEMENT shall be amended by the additional tasks summarized in Exhibit A-6, attached hereto.

ITEM NO. 2: PAYMENT

The original budget amount shown in Exhibit C of the AGREEMENT is amended as follows to cover the compensation associated with additional work described in Exhibit A-6. The estimate level of effort and associated labor costs and expenses are summarized in Exhibit C-6.

Project contingency shall not be used without prior written authorization by the CITY.

Description	Budget
Original Agreement	\$360,000
Supplement No. 1 Revised Engineering Services	-0-
Supplement No. 2 Final Design & Construction Engineering Services	\$310,000
Supplement No. 3 Construction Engineering Services	\$214,000
Supplement No. 4 Driller Services for Redevelopment	\$7,000
Supplement No. 5 Add'l Design and Construction Engineering Services	\$24,500
Supplement No. 6 Add'l Design and Construction Engineering Services for Sand Separator and Misc. Work	\$61,000
TOTAL	\$976,500

ITEM NO. 3: COMPLETION DATE

The completion date on page 1 of the AGREEMENT shall be modified to September 30, 2005.

EXECUTION

IN WITNESS WHEREOF, the parties have executed this SUPPLEMENTAL AGREEMENT by having their representatives affix their signatures below.

CH2M Hill, Inc.

CITY OF REDMOND

By _____

By _____
ROSEMARIE IVES, Mayor

(Title)

Attested:

By _____
City Clerk

Approved as to Form:

By _____
City Attorney

Exhibit A - 6
City of Redmond
Well No. 4
Supplemental Agreement No. 6
Sand Separator and Misc. Design and Construction Support

This scope is prepared in support of Supplemental Agreement No. 6. It supplements the scope developed for Task CN, Contingency to address additional work requested by the City.

Task CN - CONTINGENCY

Warranty and New Work Support

This task includes development of the warranty and new work lists and continued tracking of these activities. This process spanned more than a year in total. This task includes only the time required beyond that included in Supplemental Agreement No. 5.

Evaluation of New and Warranty Work Items and Recommendations

Engineering evaluation and recommendation were requested for the following work items:

1. Hypo tank level sensor
2. Sand removal for HVAC system
3. Sand control for full well flow
4. Portable sump pump
5. Control of fluoride floc/Fluoride tank mixer
6. Water flow restrictions to fluoride tank/Remove thermostatic mixing valves/Confirm sizing of water softener

A memo of warranty and new item specifications and cut sheets were prepared for the selected contractor in lieu of a formal Construction Document, except as noted below.

Deliverables:

- 4 copies of Redmond Well #4 Additional Work package (memorandum and contract document) for Stouder Construction
- 2 copies of full size drawings (2 sheets per set)

Bid and Construction Documents for Sand Separator

Bid documents will be prepared for the sand separator and associated improvements. The package will include specifications and drawings for the new facilities.

Deliverables:

- 25 comb bound copies of Sand Separator Contract Documents

- 25 comb bound copies of Sand Separator Bid Submittal Package
- 8 Full size drawing sets for Sand Separator Project (4 sheets per set)
- Additional copies of contract documents and full size drawings will be provided upon request (up to 4 additional full size drawings and up to 10 sets of contract documents)
- One (1) CD with electronic copy of contract document files

Pre-bid Support for Sand Separator Work

A pre-bid conference agenda for the Sand Separator Project work will be prepared and the pre-bid conference led by CH2M HILL with the support of City of Redmond staff.

Deliverables:

- Meeting agenda (15 copies)
- Four (4) hard copies of meeting minutes and associated electronic Word file (emailed to Redmond Project Manager)

Construction Support

Pre-construction meetings will be required for both projects (Sand Separator and Additional Work). Assistance with meeting agenda will be provided for the pre-construction meeting for each project. Meeting minutes will be recorded by CH2M HILL.

Six (6) on-site construction meetings are included in this agreement. Written response to RFI's (up to 15) will be provided. Final testing and verification of improvements will be performed by CH2M HILL in conjunction with the Contractor.

Deliverables:

- Assistance with meeting agenda for pre-construction meetings (10 copies for each meeting)
- Four (4) hard copies of meeting minutes and associated electronic Word file (emailed to Redmond Project Manager)
- Written and electronic copy of minutes from on-site construction meetings.

Post-construction Support

Record drawings will be provided with changes based on City of Redmond reviewed/approved Contractor markups. One additional set of revisions is included based on City of Redmond review of Draft copy of Records Drawings.

Deliverables:

- Two (2) sets of full-size draft Record Drawings on bond paper
- One (1) set of stamped/signed full-size OCE Mylar drawings (original)
- Eight (8) sets of half-size photo reductions of the OCE Mylars
- One (1) CD with electronic drawing files (Microstation)

Project Management

The closeout of this project has extended well beyond the original schedule for the project. This has resulted in additional project management expenses including additional invoicing, status reports, and coordination of additional work. Project management will continue to be performed until all work on the Sand Separator and Additional Work projects is accomplished and project closeout and invoicing complete.

EXHIBIT C-6

CONSULTANT FEE DETERMINATION

Project: Redmond Well No. 4

Project No. 93-OW-18

Negotiated Hourly Rates:

<u>Classification</u>	Hours	2005 Rate	Costs
Senior Engineer	141	\$163	\$22,983.00
Lead Engineer	140	\$121	\$16,940.00
Design Engineer	0	\$98	\$0.00
Senior Technician/Web Page Dev.	55	\$93	\$5,115.00
Engineer	69	\$77	\$5,313.00
Staff Engineer	5	\$68	\$340.00
Construction Technician	25	\$61	\$1,525.00
Office	70	\$54	\$3,780.00
TOTAL LABOR =			\$55,996.00

Reimbursables:

Copying / Printing / Reprographics	\$600.00
Communications	\$580.00
Computer	\$2,400.00
Other	\$200.00
Sub -Total Reimbursables =	\$3,780.00
Contingencies =	\$1,224.00
TOTAL CONSULTANT FEE =	\$61,000.00